Lucent Operatory

Dental Light

Operation and service manual

TPC

851 S. Lawson St.

City Of Industry, CA 91748

P626-810-4337 Fax 626-810-4245

www.tpcdental.com

REV. 1-1-13

TPC

Table on Contents: Page

GENERAL INFORMATION 3

Installation 4

Overview of components 5

Operation instructions 6

Light head and vertical arm adjustment 7

replacement of light bulb 8

Replacement Parts List 9

CLEANING & DISINFECTING GUIDE 12

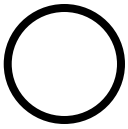
Warranty 13

TROUBLE SHOOTING GUIDE 14

Technical Assistance is available Monday through Friday, 8:00 Am to 5:00 PM PST.

General Information:

Definitions of symbols

	Risk of electrical shock present. Make sure power is disconnected before attempting this procedure.		Type B equipment (Protected against electrical shock)
	Caution: Failure to carefully follow the described procedure may result in damage to the equipment or operator.		Dangerous Voltage
	AC (Alternating Current)		Off
	Protective earth (Ground)		On

Model: L800 Lucent Dental Light
Serial No: L800-8675309
Input Voltage: 120V ~ 60Hz
Current: 1A
Warning: RISK OF FIRE - CLASS 1
Replace fuse as marked
1A Fuses
Manufactured: 7-2009
TPC
Reference Owner's Manual
18525 E. Gale Ave.
City Of Industry, CA 91748

Operatory Light Installation

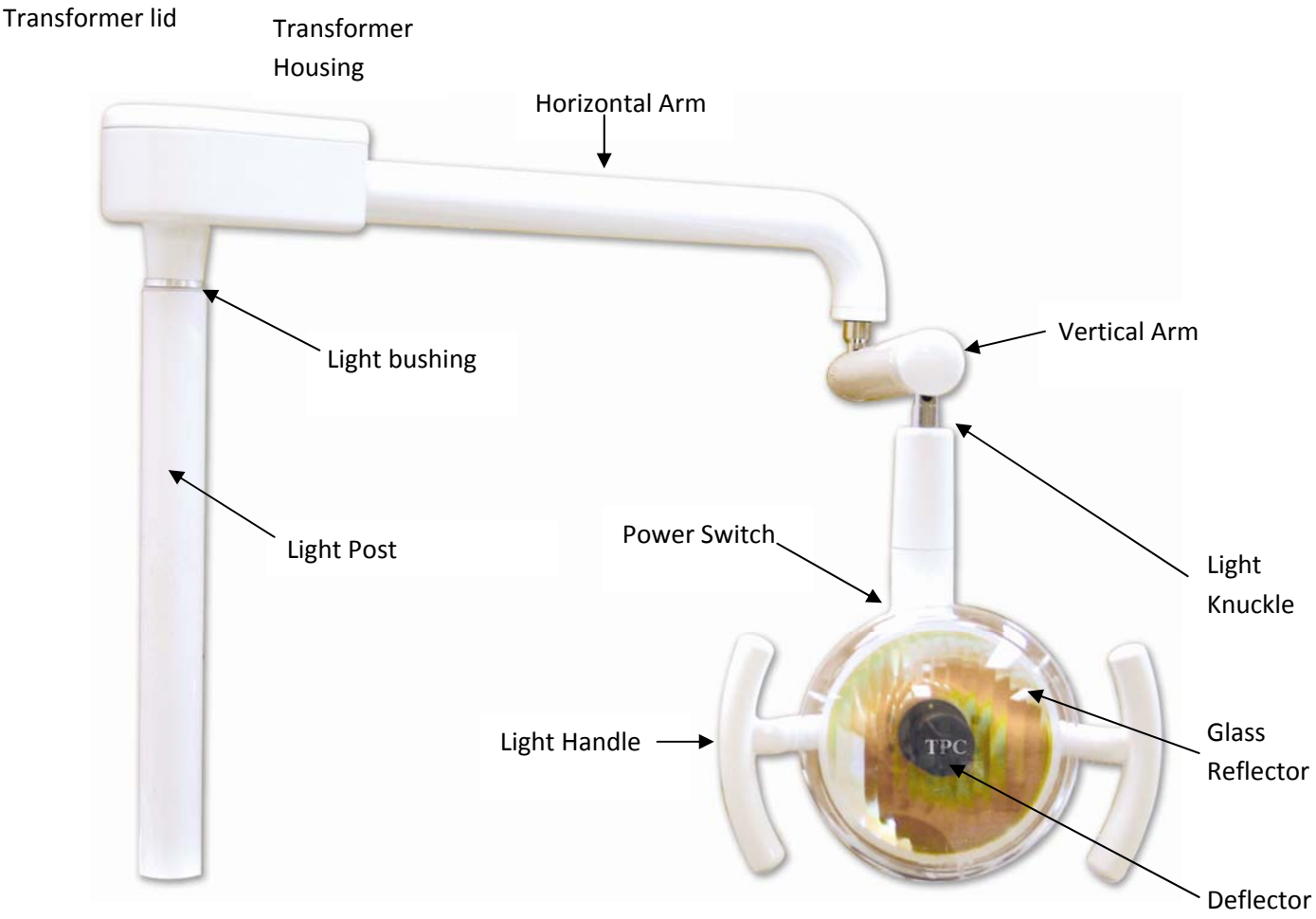
- The Lucent Operatory Light is designed to fit into the top end of a chair or floor mounted post. The size of the included bushing is 1 11/16”. For all other light post sizes you will need to obtain an additional light post adaptor bushing.

- Insert the end of wire through the silver light bushing.

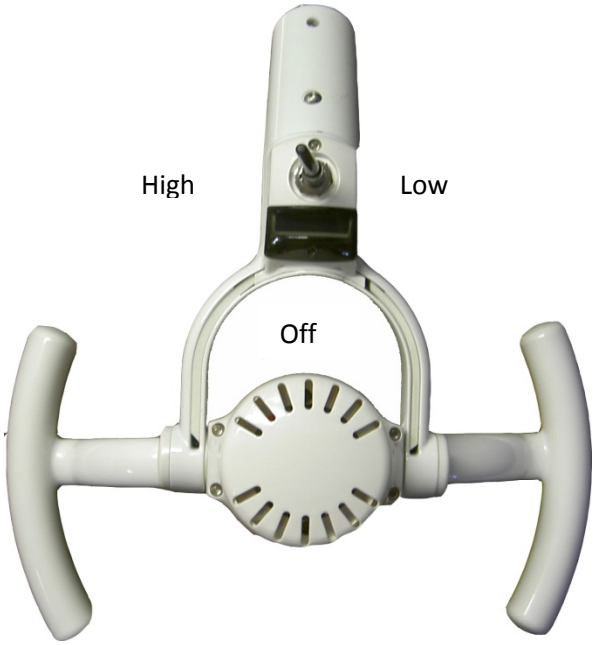
- Place the end of the wire through the light post and insert the light bushing into the light post and press down to insure proper seating of the bushing.

- Connect the wires to the corresponding terminals on the plug. Or hard wire the connections using the included wire nuts.

Overview of components:



- Move power switch to the left to set the light to high intensity. Move the power switch back to the center position to turn it to the off position. Move the power switch to the right to right to turn it to low intensity.



- To adjust the position of the light, place your hand on the light handle and move it to the desired location. You can move the light head up and down and left and right. When turning the light head left and right it will stop, don't force any further movement of the light head as damage may occur.

- To bring the light closer to the patient or desired illuminated location pull down on the light handle to move the vertical arm. Once the light is in the desired location I will stay in that positions until you move it back.

Light Head adjustment

- **If you experience a downward drift with your operatory light head please follow the following procedure below.**
- **Remove the nut cover shown in the image below. Tighten both retaining nuts on side of the light head. See images below. To tighten the nuts turn them clockwise. Do not over tighten the nuts as damage may occur.**

Vertical Arm adjustment

- If you experience a downward drift with your operatory lights vertical arm please follow the producer below.
- Remove the end cap cover on the end of the vertical arm closest to the light head. This requires a small Phillips screw driver.
- Turn the nut located at the end of the light arm to adjust the tension.
- Turn the nut clockwise to increase the tension. Turn the nut counter clockwise to decrease the tension.
- If your vertical light arm drifts down then you need to increase the tension. If the vertical light arm drifts back up you need to decrease the tension.

Light Bulb Replacement Instructions.

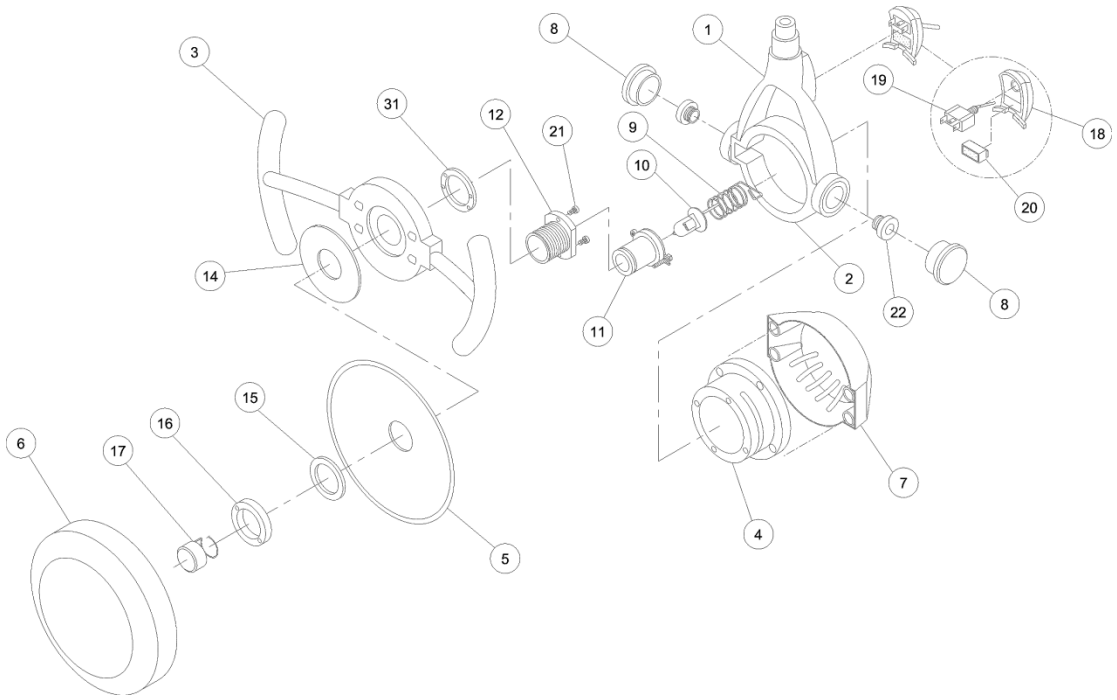
1. Locate the rear cover to the operatory light and remove the 4 Allen screws with a 3/32 Allen wrench.

2. Locate the tension spring retainer. Once you locate it press it in and rotate it counter clockwise. These will UN lock the retaining spring that holds in the light bulb.

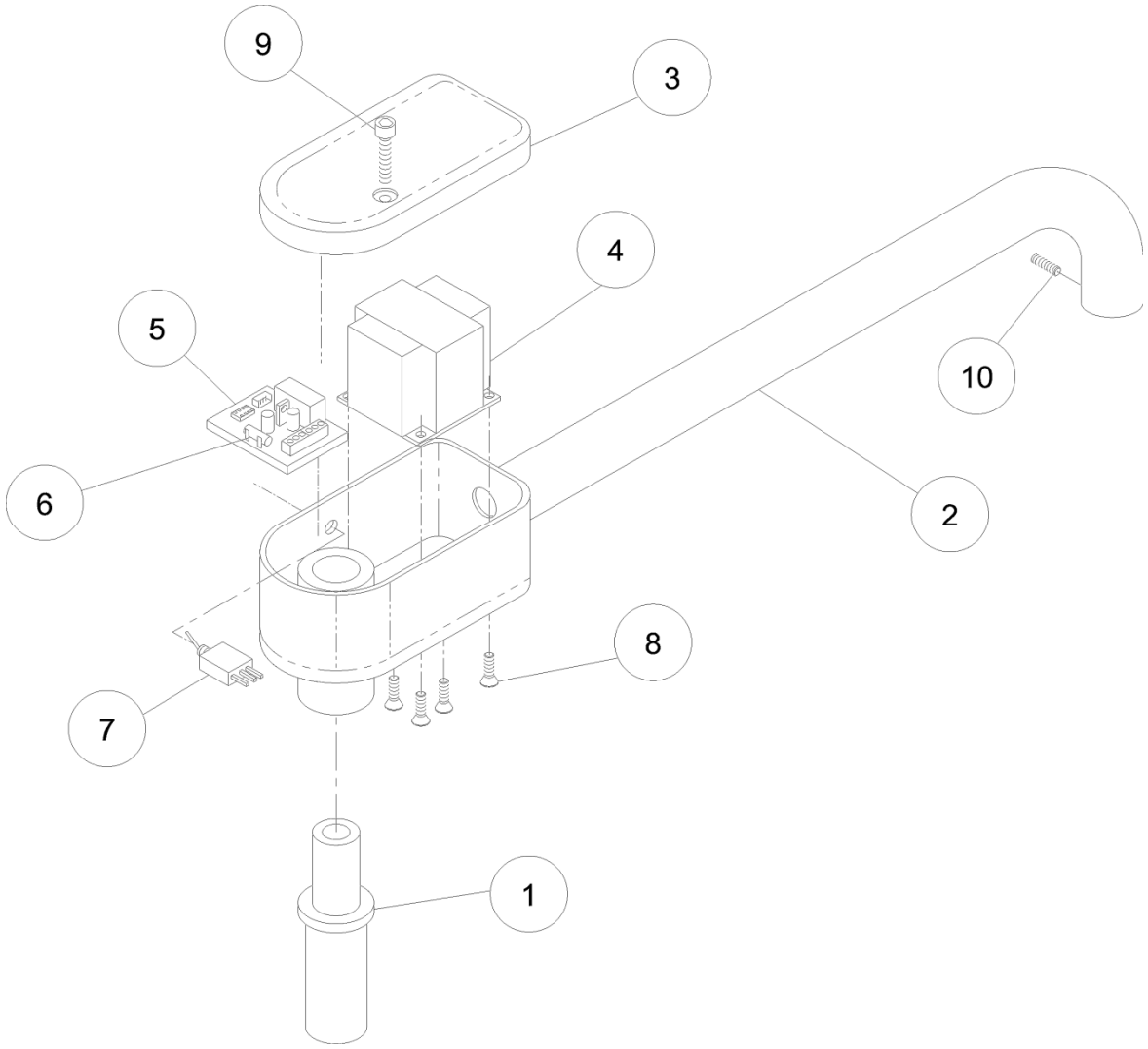
3. Remove the wire that connects the light bulb to the wiring harness “the red wire”. Replace the light bulb with replacement light bulb part number P709 or similar. Halogen lamp 12 Volts 55 Watts.

TPC

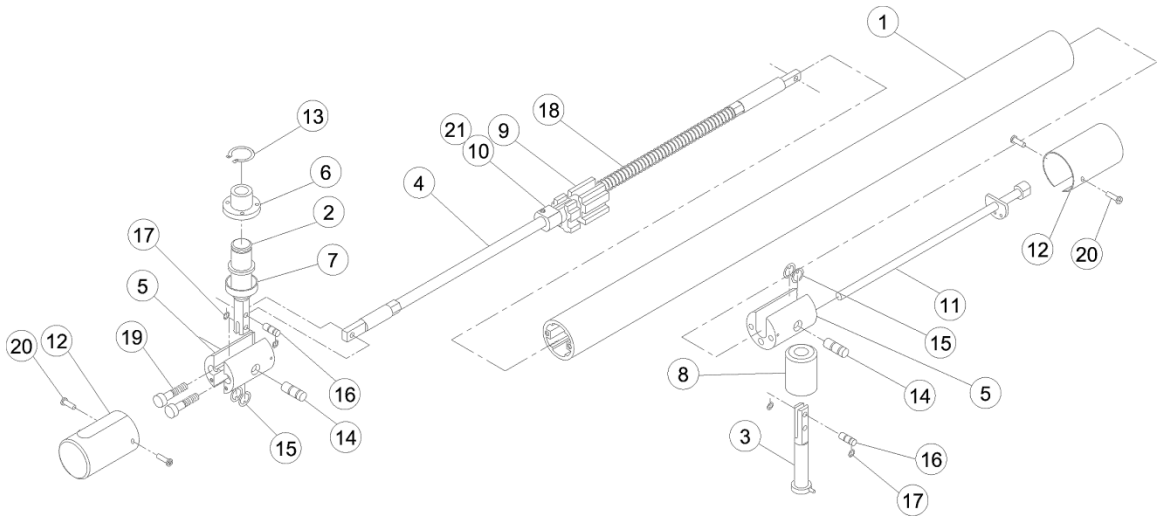
Replacement Parts List



Item	Part Number	Description
1	56051	Yoke
2	56052	Support Yoke
3	56053	Handle Frame
4	56054	Socket Bushing
5	56055	Reflector
6	56056	Shield
7	56057	Rear Cover
8	56058	Tension Covers
9	56059	Light Bulb Tension Spring
10	P709	Light Bulb
11	56061	Light bulb Socket
12	56062	Reflector Holder Bushing
13	56063	Washer
14	56064	Large Washer Rubber
15	56065	Small Washer rubber
16	56066	Round Nut
17	56067	Deflector
18	56068	Cover, Switch
19	56069	Power Switch
20	56070	Sensor PCB
21	56071	Screw
22	56072	Light Head Wire Harness



Item	Part Number	Description
1	56001	Light Bushing
2	56002	Rigid Arm
3	56003	Cover, Transformer
4	56004	Transformer
5	56005	PCB Board
6	56006	Fuse
7	56007	Switch
8	56008	Screw X 4
9	56009	Transformer Cover Screw
10	56010	Set Screw
11	56011	Ridge Arm wire harness



Item	Part Number	Description
1	56021	Cover Flex Arm
2	56022	Knuckle, Rigid Arm
3	56023	Knuckle, Head
4	56024	Spring Rod
5	56025	Extension Support
6	56026	Bushing
7	56027	Bezel
8	56028	Bushing
9	56029	Block Spring Tensioner
10	56030	Friction Block
11	56031	Tensioner Rod
12	56032	End Cap Cover
13	56033	Retainer Ring
14	56034	Long Pin
15	56035	Retainer Ring Small
16	56036	Short Pin
17	56037	Retainer Ring Small
18	56038	Spring
19	56039	Screw Cap Head Socket
20	56040	Screw, End Cap
21	56041	Friction Screw

Cleaning and disinfecting guide

Table 1

*The Manufacturer makes no representation as to the disinfectant efficacy of these products. We make no warranty expressed or implied that these disinfectants will not damage the surface finishes. Damage and discoloration of the surface finishes are not covered under the warranty. Iodophor-based disinfectants will cause yellow staining on many surfaces. Regular washing with soap and water will minimize this staining. Iodophor neutralizers such as Promedyne are also available.

Unacceptable Disinfectants These disinfectants **will harm** the surface finishes of dental equipment and are not recommended. **Use of these products will void your warranty.** Chemical Composition / Trade Names Strong Phenols / Lysol, Lysol 2, Lysol Phenol-Alcohol Professional, Coe Foam, Coe combinations Spray Pump, Vitaphene, Omni II Sodium Hypochlorite / Clorox, Ajax, Purex Household Bleach Alcohol Household Cleaners	**Conditionally Acceptable Disinfectants** These disinfectants have been found to be the **least harmful** to the equipment surfaces by our test methods. Chemical Composition Trade Names Iodophors Biocide, Aseptic-IDC, Wescodyne, SD5, Promedyne, Iodo-Five Mild Phenols Procide ES, Asepti-Steryl Aerosol Glutaraldehyde / Sterall Spray, Coldspor Phenol Sprays Synergized Super Dis-cide, Cavicide, Kleenaseptic Quat Phenol/Water Sprays Top-Cide, Sporicidin Pump Spray Birex se

Warranty Information

All of our products sold are guaranteed to be free from defects in workmanship and materials for a 1 year from date of purchase, unless otherwise stated. TPC will repair or replace any defective part at no charge. TPC will not be responsible for labor charges or shipping charges to / from the TPC facility. This guarantee does not cover normal wear or stains on surface finish. The guarantee does not cover damage resulting from improper installation, misuse or accidents incurred in shipping and handling. All claims against the freight carrier must be initiated at the time the damaged items are received. The claim is the responsibility of the customer. We are improving our products on a continuous basis. We reserve the right to make modifications without the need for prior notification and are not obliged to modify previously manufactured items. Light bulbs are not covered under any type of warranty. Only authorized service technicians should attempt to service TPC equipment. Service performed by any unauthorized technician may result in a voided warranty.

TPC

Troubleshooting Guide.

Problem	Cause	Solution
Light does not illuminate	No power to light	Check power
	Light bulb has expired	Replace light bulb
	Transformer is expired	Replace transformer
Only high or low function works	Secondary windings on transformers are expired	Replace transformer
	Main power switch is bad	Replace main power switch
Light turns on and off then the light head is moved	Short or open in power line form transformer.	Check each power line for short or open. Then replace.
Light head drifts down	Light head tension springs are loose	Tighten light head spring nuts.
Vertical arm drifts up or down	Vertical arm tension spring needs to be adjusted	Adjust vertical arm tension.
Light drifts from left to right	Light post is not level	Level light post.